



# **WEST STAR AVIATION**

## **FAA Certificated Repair Station**

**Air Agency Certificate Number 3WTR399B  
5904 Pinehurst Ave.  
Chattanooga, TN 37421**

# **Capabilities List Manual**

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Manual Approved By: \_\_\_\_\_

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## Record of Revisions

This Capabilities List will be revised electronically. The footer will indicate the current revision number and date of the entire manual. Revision bars in the left margin are used to indicate revised material in this manual.

Refer to the chart below to see past revision numbers and release dates.

Revision Number	Revision Date	Revision Number	Revision Date
Original	August 6, 2010	Revision 31	December 8, 2020
Revision 1	September 17, 2010	Revision 32	January 8, 2021
Revision 2	November 2, 2011	Revision 33	February 01, 2021
Revision 3	January 30, 2012	Revision 34	March 10, 2021
Revision 4	February 28, 2012	Revision 35	May 03, 2021
Revision 5	May 21, 2012	Revision 36	July 07, 2021
Revision 6	June 7, 2012	Revision 37	August 19, 2021
Revision 7	February 17, 2013		
Revision 8	May 14, 2013		
Revision 9	October 23, 2013		
Revision 10	April 17, 2014		
Revision 11	May 19, 2014		
Revision 12	October 17, 2014		
Revision 13	September 4, 2016		
Revision 14	March 1, 2016		
Revision 15	March 25, 2016		
Revision 16	May 4, 2016		
Revision 17	July 20, 2016		
Revision 18	August 02, 2016		
Revision 19	December 2, 2016		
Revision 20(Rewrite)	October 30, 2017		
Revision 21	August 13, 2018		
Revision 22	February 26, 2019		
Revision 23	February 28, 2020		
Revision 24	April 28, 2020		
Revision 25	May 4, 2020		
Revision 26	August 24, 2020		
Revision 27	August 27, 2020		
Revision 28	September 29, 2020		
Revision 29	October 21, 2020		
Revision 30	November 16, 2020		

## Manual Control

- A. Procedures for revising West Star Aviation Capability list.
1. The Accountable Manager will be responsible for making and submitting revisions.
  2. The Capability List will be kept in electronic format accessible on West Star Aviation (WSA) computer network. An up-to-date electronic version will also be available on West Star Aviation's Shared Network File computer system, which is available for employee use and reference. The revised list and any other necessary technical data will be submitted via email within 5 business days of revising to West Star Aviation's Principal Inspector at the Nashville Flight Standards District Office.
  3. Revised material will be indicated by revision bars on the side margins. All revisions will be dated using the revision approval date by the Accountable Manager. The table of contents and list of effected pages will also be updated to reflect the revision.
  4. The cover page of the manual will be approved and signed by the Accountable Manager.
  5. The Nashville Flight Standards District Office will receive a copy of the Capabilities List showing revision(s) in an electronic format, and will be sent to the assigned Principal Inspector (PI) for the acceptance.
- B. Procedures for self-evaluation and reporting the results of the self-evaluations for the capability list 145.215(c)
1. Self-evaluation will be performed when another aircraft, engine, or article needs to be added or removed.
  2. An example of the Self Evaluation Form WSA-F100 can be found in section 3 of this manual.
  3. The Accountable Manager will perform the self-evaluations and must have the following qualifications:
    - a. Experience with performing evaluations.
    - b. An understanding of the requirements of Part 145.
    - c. Knowledge of the maintenance requirements for the particular make/model of article to be added to the list.
  4. Each article in the list must have a self-evaluation form WSA-F100 completed by the Accountable Manager.
  5. This form must be completely filled out, signed and available for review to the Nashville Flight Standards District Office.
  6. The self-evaluation forms WSA-F100 will be kept in an electronic version available on West Star Aviation's Shared Network File computer system.
- C. Procedures for reporting deficiencies found.
1. WSA-F026 Nonconformance write-up and corrective action form will be filled out to report any deficiencies found during the self-evaluation. This form will be used to report to the Accountable Manager for review and resolution.
  2. The nonconformance forms will be kept in an electronic version available on West Star Aviation's Shared Network File computer system. West Star Aviation will keep records of the self-evaluation on file for a period of 2 years.
- D. Procedures for completing the Self Evaluation Form WSA-F100 (on page 15 of this manual)
1. Enter Accountable Manager's name and date.
  2. List the Manufacturer, make and/or model of the aircraft, engine, or article that is being evaluated.
  3. Answer all of the 10 questions accurately and add comments if necessary.
  4. Any additional Comments may be added on the last 3 lines.

## Limited Ratings

### Airframe

Manufacturer	Make / Model	Limitations
Textron Aviation <i>Formerly Cessna</i>	Cessna 425 & 441 Citation 500 & 501 Cessna 510 Citation 525, 525A, 525B, 525C Citation 550, 551 & 560, 560XL, 560XLS, 560XLS+ Citation 650 Citation 680 Citation X (750)	None
Gulfstream Aerospace LP	G100 Astra SPX 1125 Westwind Astra G150 G200 G280	None
Gulfstream Aerospace Corporation	G-IV GV GV-SP GIV-X GVI G650 GIII (G-1159A)	None
Dassault Aviation	Falcon 10 Series Falcon 20 Series Falcon 50 Series Falcon 900 Series Falcon 2000 Series Falcon 7X	None
Learjet Inc.	31,35,36,45,55,60 Series	None
Textron Aviation <i>Formerly Beechcraft</i>	90, 100, 200 & 300 Series HS-125-700A & -700B Hawker 800 Hawker 800A & -800B Hawker 800XP Hawker 850XP Hawker 900XP Hawker 1000 Beechjet 400 Series	None
Bombardier (Challenger)	BD-100-1A10 CL-600 Series	None
Bombardier (Global)	BD-700-1A10 BD-700-1A11	None

Airframe (continued)

Manufacturer	Make / Model	Limitations
Embraer	EMB-500 (Phenom 100) EMB-505 (Phenom 300) EMB-545 (Legacy 450) EMB-545 (Praetor 500) EMB-550 (Legacy 500) EMB-550 (Praetor 600)	None
Yaborã Formerly Embraer	EMB-190-100 ECJ (Lineage 1000) EMB-135BJ (Legacy 600/650) EMB-135 Series EMB-145 Series	None

### Powerplant

Manufacturer	Make / Model	Limitations
Williams International	FJ44-1A FJ44-1AP FJ44-2C FJ44-3A FJ44-3A-24 FJ44-4A	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Honeywell International	TFE731-2 TFE731-2B TFE731-3 TFE731-3A TFE731-3C TFE731-3R TFE731-4R Series TFE731-5 TFE731-5R TFE731-5BR TFE731-20AR TFE731-20BR TFE731-40R-200G TFE731-40AR-200G TFE731-60-1C TPE-331 Series AS907-1 Series AS907-2 Series GTCP-36-100 Series GTCP-36-150 36-150IAI RE100CX RE100XL HTF 7000 Series	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Pratt and Whitney Canada Corp.	JT15D-1, -1A, -1B JT15D-4 JT15D-5, 5A,5B,5D,5R,5F PT-6 Series	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Pratt and Whitney Canada, Inc.	PW305 Series PW306A PW306C PW308C PW500 Series PW530A PW535B,E PW545A,B,C PW615	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
General Electric	CF-34-1 and 3 Series CFE738	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.

Powerplant (Continued)

Manufacturer	Make / Model	Limitations
Rolls Royce	Tay Mark 611-8C Tay Mark 611-8 AE3007C Series BR700-725A1-12 Spey 511-8	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.
Hamilton Sundstrand	T-62T-20G-10C3/4	Maintenance is limited to inspection, removal/installation of accessories, components, and adjustments, minor repairs and alterations, excluding hot section inspections, disassembly of engine modules, or overhauls.



### Instruments and Radio

Component	Make / Model	Limitations
Transponders	Honeywell MST-67A Honeywell XS-850A Honeywell XS-852 Honeywell XS-857A Honeywell XS-858B Rockwell Collins TDR-90 Rockwell Collins TDR-94 Rockwell Collins TDR-94D Garmin GTX-33 Garmin GTX-33D Garmin GTX-3000 Bendix King KT 76A Honeywell KT-74	Air data Computer Systems, Standby Altimeters, Mode S Transponders, Signal Interface Adapters, Micro Air Data Computer Systems, VHF Comms, Perform test and inspections of each altimeter, static pressure system and automatic altitude reporting equipment IAW CFR Part 43, Appx. E & F.
Air Data	Honeywell AZ-242 Honeywell AZ-800 Honeywell AZ850 Honeywell AZ-950 Honeywell AZ-960 Rockwell Collins ADC-3000 Bendix King KDC-481 Garmin GDC-74A Garmin GDC-74B	
Altimeter	Honeywell AM-250(ADDU) IS&S Air Data Display Unit Rockwell Collins ALI-80A Bendix with encoder	
Integrated Flight Suites	Honeywell Primus Apex Honeywell Primus Elite Honeywell Primus Epic Honeywell Primus 1000 Honeywell Primus 2000 Rockwell ProLine IV Rockwell ProLine 21 Garmin G1000 Garmin G3000	

### Interior Refurbishment

Manufacture	Make / Model	Limitations
Textron Aviation <i>Formerly Cessna</i>	Cessna 425 & 441 Citation 500 & 501 Cessna 510 Citation 525, 525A, 525B, 525C Citation 550, 551 & 560, 560XL, 560XLS, 560XLS+ Citation 650 Citation 680 Citation X (750)	Perform repairs or refurbishment of aircraft interior components, seats, berths, and / or litters. Perform repairs or refinish of aircraft interior cabinets, bulkheads, racks, and / or shelves. Work shall be accomplished in accordance with the manufacture's current technical data, the customers air carrier data, or other data approved by the Administrator.
Gulfstream Aerospace LP	G100 Astra SPX 1125 Westwind Astra G150 G200	
Gulfstream Aerospace Corporation	G-IV GV GV-SP GIV-X GIII (G-1159A)	
Dassault Aviation	Falcon 10 Series Falcon 20 Series Falcon 50 Series Falcon 900 Series Falcon 2000 Series Falcon 7X	
Learjet Inc.	31,35,36,45,55,60 Series	
Textron Aviation <i>Formerly Beechcraft</i>	90, 100, 200 & 300 Series HS-125-700A & -700B Hawker 800 Hawker 800A & -800B Hawker 800XP Hawker 850XP Hawker 900XP Hawker 1000 Beechjet 400 Series	
Bombardier Challenger	300 Series 600 Series	
Bombardier Global	BD-700-1A10	
Embraer	EMB-500 (Phenom 100) EMB-505 (Phenom 300) EMB-545 (Legacy 450) EMB-545 (Praetor 500) EMB-550 (Legacy 500) EMB-550 (Praetor 600)	
Yaborã <i>Formerly Embraer</i>	EMB-190-100 ECJ (Lineage 1000) EMB-135BJ (Legacy 600/650) EMB-135 Series EMB-145 Series	

### Landing Gear Components (Wheel Assembly)

Manufacture	Part Number	Description	Limitations
Aircraft Braking System	PN 5011740 series	Wheel Assembly	Limited to inspection, maintenance, and alterations of aircraft wheels.
Goodrich	PN 3-1481 series	Wheel Assembly	
Goodrich	PN 3-1341-1 series	Wheel Assembly	
Safran	PN C20180410 series	Wheel Assembly	

### Landing Gear Components

Manufacture	Part Number	Description	Limitations
EMB-500 Phenom 100	2310-2000-XXX	MLG Shock Strut	Limited to Inspection, Repair, Overhaul
	2136-1000-XXX	MLG Locking Actuator	
	2310-4000-XXX	MLG Shock Absorber	
	2310-1000 2310-5000	NLG Shock Strut	
	2310-1700-XXX	NLG Locking Stay	
	2310-1400-XXX	NLG Drag Brace	
EMB-505 Phenom 300	2317-1100-XXX	MLG Shock Strut	Limited to Inspection, Repair, Overhaul
	2117-3000-XXX	MLG Locking Actuator	
	2317-3000-XXX	MLG Shock Absorber	
	2317-5100-XXX	NLG Shock Strut	
	2317-6500-XXX	NLG Locking Stay	
	2317-6000-XXX	NLG Drag Brace	
Cessna	6541425-13	MLG Shock Absorber	Limited to Seal and Outer Bearing Replacement Only

### Landing Gear Components

Manufacture	Part Number	Description	Limitations
EMB-500 Phenom 100	2310-3000-402	R/H MLG Trailing Arm	Limited to Inspection, Repair, Overhaul
	2310-3000-401	L/H MLG Trailing Arm	
	2310-1100-403	NLG Shock Absorber	
EMB-505 Phenom 300	2317-1500-406	R/H MLG Trailing Arm	Limited to Inspection, Repair, Overhaul
	2317-1500-405	L/H MLG Trailing Arm	
	2317-5170-403	NLG Shock Absorber	

### Accessories (Batteries)

Manufacture	Part Number	Description	Limitations
Concorde Battery Corp.	RG Series	Sealed Lead Acid Batteries	Limited to inspection, maintenance, and alterations of batteries.
L3 Harris	PS-835	Emergency Power Supply Batteries	
Honeywell	60-1321	Emergency Power Supply Batteries	
Gill	PN 7639 series PN 7025 series PN 7035 series PN 7242 series PN 7243 series PN 7246 series PN 7407 series PN 7649 series PN 7638 series	Sealed Lead Acid Batteries	
Saft	5317CH-1 267CH-7 257CH-9 1756-3 427CK-1	Nickel-Cadmium (NiCad) Batteries	
Hawker	Hawker Valve Regulated Sealed Lead Acid Batteries	Sealed Lead Acid Batteries	

## Self-Evaluation Form

<b>West Star Aviation</b> <b>Repair Station Number: 3WTR399B</b> <b>Self Evaluation Form WSA-F100</b> <b>for Capability List 145.217(c)</b>			
<b>Accountable Manager:</b>		<b>Date:</b>	
<b>Manufacturer:</b>			
<b>Make/Model:</b>			
Evaluation Questions	Comments	Yes	No
1. Can the facility accommodate the aircraft or article?		<input type="checkbox"/>	<input type="checkbox"/>
2. Does the facility have sufficient workspace for the proper segregation and protection of articles?		<input type="checkbox"/>	<input type="checkbox"/>
3. Does the facility have segregated areas for hazardous materials?		<input type="checkbox"/>	<input type="checkbox"/>
4. Does the facility have suitable racks, trays, stands, and other segregation means for storage and protection of articles?		<input type="checkbox"/>	<input type="checkbox"/>
5. Does the facility have sufficient space to segregate articles for installation, or articles undergoing any kind of maintenance?		<input type="checkbox"/>	<input type="checkbox"/>
6. Does the facility have the tools?		<input type="checkbox"/>	<input type="checkbox"/>
7. Does the facility have the equipment?		<input type="checkbox"/>	<input type="checkbox"/>
8. Does the facility have the current technical data?		<input type="checkbox"/>	<input type="checkbox"/>
9. Does the facility have sufficient qualified personnel?		<input type="checkbox"/>	<input type="checkbox"/>
10. Does the Certificate have the Limited Rating for this article?		<input type="checkbox"/>	<input type="checkbox"/>
<b>11. Additional Comments:</b>			
<b>Signature of Accountable Manager:</b>			